

TENNESSEE DEPARTMENT OF AGRICULTURE

Water Resources Program

	uired elements of an NMP/CNMP as required to obtain a CAF(CNMP) has been reviewed and approved by this office.								
Name of Owner/Operator: William C. Malor	ney								
Operation Name: Willway Dairy (FNA Holt									
Address of Operation: 5290 Holt Road, Sw									
Phone Number: (423) 351-4214 County: Monroe/Loudon									
;	•								
Date application was initiated:	Date approval forwarded to TDEC:								
RECEIVED OCT 2 4	OCT 1 5 2014								
NMP/CNMP Approval Date: THE APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT OCT 15 2014 OPERATION OR AS WARRANTING THAT THE APPROVED FACILITIES WILL REACH THE DESIGNED GOALS	Date approval received by TDEC								
TDA Reviewer's Name:Sam /	Marshall								
TDA Reviewer's Signature:	Narshall October 15, 2014								

Date

Will Maloner Surefwater, The Surefwater, Surefwate

The following 9 items need to be submitted at the time the permit is applied for. Additional record-keeping items as outlined in the CAFO rules are also considered part of the nutrient management plan and must be kept on-site. More information on each item can be found in the CAFO rule (1200-4-5-.14).

1			
y 1	1. Two maps: (1.) A map of	your farm showing location of any animal barn	s/houses, compost hins, litter
	storage bins, manure lago	ons/holding ponds, nearby roads, fields to whic	h litter/manure will be applied
	and non-application buffer	areas around any bodies of water (streams, c	reeks rivers ponds wells
	sinkholes, springs, wetland	ds, etc.). A hand-drawn map is acceptable and	even preferred. (2.) A
/	 topographic map of the far 	m (1:24000 scale, showing 1-mile radius from t	farm) showing property lines.
1/ 0			
_ 2	Nutrient budget – this is b	pasically a balance sheet of all manure produce	ed on the farm and all manure
	spread on the farm or remo	oved from the farm. Application rates for all field	ds should be based on crop
	needs, realistic crop yield e	expectations, and actual manure analyses of nu	utrient content.
1 3	S. Sail test results for phosp	phorus and potassium for each application field.	Those must be deliced at
Д	minimum of every five year	'S.	These must be taken at a

⊘ 4	CAFOs. The farm that is a obtained one need to be s	ese results must be applying for the pe ce operation beging the peration begins the perat	from within the past ye be included with initial ermit is new and not y ns. At that point, the n Manure test results in	permit applicat et operating, the nanure test res	ion if the farm is in nen manure testing sults and revised an	operation. I results need	If the d to be tes
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1	5.	Results of the Phosphorus Index applied to each field that has a soil test P value of "High" or "Very High". In those situations, this tool will determine whether your application rates will be based on nitrogen or phosphorus.
1	6.	Statement regarding method of dead animal disposal .

7. Closure Plan to be implemented in the event animal production ceases on the site.

These last two items are only required for medium-size CAFOs that manage liquid manure.

8. Documentation of design of liquid waste handling system. This should include, but is not limited to: volume for solids accumulation, design treatment volume, total design volume, the approximate number of days of storage capacity, pumping and routing of wastes, and any solid separation process. Ideally, this documentation would consist of the pertinent engineering drawings with accompanying descriptive

9. The construction, modification, repair, or installation of any portion of a CAFO liquid waste handling system (such as earthen holding pond, treatment lagoon, pit, sump or other earthen storage/containment structure) after April 13, 2006 must be preceded by a thorough subsurface investigation. This investigation will include a detailed soils investigation with special attention to the water table depth and seepage potential.

In addition to the items above, the following form(s) must accompany your application
Notice of Intent form must be submitted with all applications from Class II (Medium) CAFOs
OR OR
FPA Forms 1 and 28 must be submitted with all applications from Object (1)
EPA Forms 1 and 2B must be submitted with all applications from Class I (Large) CAFOs.
✓ Addendum to Nutrient Management Plan
Addendum to Nutrient Management Plan.





Ten ee Department of Environment and Constion, Division of Water Pollution Control 401 Church Street, 6th Floor L & C Annex, Nashville, TN 37243 (615) 532-0625

CONCENTRATED ANIMAL FEEDING OPERATION (CAFO) STATE OPERATING PERMIT (SOP) NOTICE OF INTENT (NOI)

Type of permit you are	e requesting:	□ sc	DPCD0000 (desig	ned to discharge)	SOPC000	00 (no discharg	ge) 🗍 Ur	nknown, please advis
Application type:		□ Ne	ew Permit		Permit Re	issuance	☐ Pe	rmit Modification
		If this	NOI is submitted fo	r Permit Modificatio	n or Reissuance pro	ovide the existing	permit tracking	g number: TNA00023
OPERATION IDENTI	IFICATION		(6)				-14	
Operation Name:	Willway I	Dairy					County:	Monroe/ Loudon
Operation Location/	5290 Holt						Latitude:	35.649327
Physical Address:	Sweetwate	er, TN	37874				Longitude	-84.512429
Name and distance to	nearest receiv	ing wat	ter(s): Greasy C	reek - 600 feet				
If any other State or Fo			vater Permits have	been obtained for	this site, list tho	se permit numb	ers:	
Animal Type:	☐ Poultry] Swine 🛛	1 Dairy □	Beef	Other		
Number of Animals: 3	350		Number of Ba barns, 1 calf sl	rns: 1 Parlor, 1 fre	e stall Name	of Integrator: N	ΙA	and the sail
Type of Animal Waste (check all that apply		t:	☑ Dry☑ Liquid☐ Liquid,	Closed System (i.e	e. covered tank,	under barn pit, e	etc.)	
Attach the NMP	NMP Attach	ed A	Attach the closure		Plan Attached	1	ographic map	Map Attached
PERMITTEE IDENTII	FICATION							
Official Contact (applican Mr William C. Mal				Title or Position: Lessee/Opera	itor			
Mailing Address: 5290 Holt Road				City: Sweetwater		Zip: 37874		
Phone number(s): (423) 351-4214 or (423) 836-86	36		E-mail: willwaydairy				
Optional Contact:				Title or Position:				
Address:				City:		State:	Zip:	□ Correspondence
Phone number(s):				E-mail:				
Application Certific	CATION AND S	SIGNATI	URE (must be sign	ned in accordance v	with the requiren	nents of Rule 12	200-4-505)	l.
I certify under pena					_		,	on or supervision
in accordance with	a system o	design	ed to assure the	nat qualified pe	rsonnel prope	erly gather a	nd evaluate	the information
submitted. Based o for gathering the in	n my inqui	ry of t	he person or p	ersons who ma	nage the syste	em, or those	persons dir	ectly responsible
complete. I am awa	are that the	ere are	significant ne	malties for sub	mitting false	information	including	he possibility of
fine and imprisonm				21411105 101 040	anning mioo	Inle	CE	VEIN
Name and title; print or type	pe			Sign	giure /	- 20/1	Da	ate
William C. Maloney	Lessee/ O	perato	r	1/1	Minc	- Malan	MAN 1/	7/17/2
STATE USE ONLY						n a	destropping the land	
CN-1147 (Rev. 7-10)				continued		1		DDA 2266

Received Date	Reviewer	EFO		T & E Aquatic Fauna	Tracking No.
	Impaired Receiving Stream	High Quality Wa		ater	NOC Date

Addendum to Nutrient Management Plan:

By my signature below, I affirm that I have read, understand, and will comply with the following stipulations from Tennessee's CAFO rule (1200-4-5- 14) that apply to my CAFO operation.

- 1) All clean water (including rainfall) is diverted, as appropriate, from the production area.
- 2) All animals in confinement are prevented from coming in direct contact with waters of the state.
- 3) All chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
- 4) All sampling of soil and manure/litter is conducted according to protocols developed by UT Extension.
- 5) All records outlined in 1200-4-5-.14(16)d-f will be maintained and available on-site.
- 6) Any confinement buildings, waste/wastewater handling or treatment systems, lagoons, holding ponds, and any other agricultural waste containment/treatment structures constructed after April 13, 2006 are or will be located in accordance with NRCS Conservation Practice Standard 313.
- 7) Drystacks of manure or stockpiles of litter are always kept covered under roof or tarps.
- 8) An Annual Report will be written for my operation and submitted between January 1 and February 15 of each year. It will include all information required by rule [1200-4-5-.14(16)g].

Signature of CAFO Operator:

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	101 5 AC 14	
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	£.	

AGRICULTURAL DIAGNOSTIC LABORATOR UNIVERSITY OF ARKANSAS - FAYETTEVILLE

Fox 800 633-2814

***	MANURE FOR FE	RTILIZER ANALYSIS	report for A	RI-429)			
Manie,	WILLWAY DAI	RY		ved in lab:	3/14/2012		
Address:	5290 HOTT RD	. HOLT		led:	3/20/2012		
City:	SWEETWATER	₹		Zip:	TN 37874		-
County:	MONROE (TN)		СК	1	bill to Dr. Forb	0.0104-11	-
Lab. No.	M20539		The state of the s		DHI (O EA. FOID	SE ANSWEL	
Sample No.	NONE GIVEN			-			_
Animal type	dairy		- =	-			_
-age/lbs	300-400 lb calve	98					_
Bedding type	none given			—			_
Manure type	calf barn bedde	d pack					_
Sample date	3/11/2012				· · · · · · · · · · · · · · · · · · ·		_
Age of manure	3 weeks			-			٠,
pΗ	9.3			— -			-
EC(µmhos/cm)	1974		_ =	_			<u>.</u>
% H20	71.38			<u> </u>			-
		-on dry basis-				angelo multi-	r
Total %N	1.15	,					
Total %P	0.49		-				
Total %K	1.42			-			
Total %Ca	1.17		-				
Total %Carbon	26.49			-			
NO3-N, mg/kg			- =	-			
NH4-N, mg/kg						 ,	
	388		_ =	-			
	A CONTRACTOR OF THE PARTY OF TH	-on as-is basis-					
Total %N	0.33	A11 89-49 D4917-					
Total %P	0.14	-		_			
otal %K	0.41						
otal %Ca	0.33			-			
otal %Carbon	7.58		=				
IO3-N, mg/kg							
IH4-N, mg/kg			-			7	
		lhelles es es es					
1	6.6	-lbs/ton on as-is ba	31S-				
205	6.4			⊢ -			
20	9.8						
a	6.7					7	
otal Carbon			-				
O3-N	151.6						
O3-N H4-N				_			
: 1 -4-(A							

^{***}all analyses performed on "as-is" basis/ "dry" basis is calculated from moisture content

RECEIVED

THE # 2012

^{*}lbs/ton P2O5 = %Total P on "as-is" basis multiplied by 20*2.29

^{*}lbs/fon K2O = %Total K on "as-is" basis multiplied by 20*1.2

423-337-

AGRICULTURAL DIAGNOSTIC LABORATORY UNIVERSITY OF ARKANSAS- FAYETTEVILLE

LIQUID MANURE FOR FERTILIZER ANALYSIS (report for AGRI-429) willwaydairyTN@yahoo.com Received in lab: 10/15/2012 WILLWAY DAIRY Name: 10/23/2012 Mailed: Address: **5290 HOLT RD.** TN 37874 State,Zip: SWEETWATER City: bill to Dr. Forbes Walker Check #: MONROE (TN) County: M21417 M21416 Lab. No. NONE GIVEN NONE GIVEN Sample I.D. dairy Animal type dairy none given -age/lbs none given sand Bedding type lagoon sludge. dry stack Manure type 10/05/2012 10/05/2012 Sample date 15 years Age of manure 1-7 days 7.3 6.5 pН 3370 15610 EC(µmhos/cm) 5.82 17.15 % Solids -mg/l on as-is basis-1492 4121 Total N 555 817 Total P 420 2267 Total K 5080 2481 Total Ca Ammonia-N Nitrate-N -lbe/1000 gal on as-is basis-12.4 Total N 34.3 TOTAL PAS 15.6 10.6 "P2O5" TOTAL K AS 4.2 22.7 "K20" 42.3 Total Ca 20.7 Ammonia-N Nitrate-N

*lbs/1000gal P2O5 = mg/l Total P on "as-is" basis multiplied by 2.29*0.00833

*lbs/1000gal K2O = mg/l Total K on "as-is" basis multiplied by 1.2*0.00833

RECEIVED

For small grain establishment, apply 15 pounds of nitrogen per acre when following soybeans and 30 pounds per acre when following corn, grain sorghum or grasses.

Topdress small grain February 15 to March 15 with 60 to 90 pounds per acre of nitrogen. Use lower rates of nitrogen where lodging has been a problem.

County: Monroe

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Water Buffer pH Value

Sample ID

Phosphorus Potassium

Ca Calcium Magnesium

696

366 S

Zn Zinc Cooper

Min Iron Manganese

a Ma Boron Sodium

Lab Number:

8 Mitrates Sulfur

412958

6.6

40 H 161

Soluble Organic PPM

RECOMMENDATIONS

K

Fertilizer/Lime Application Rate and Timing

Corn Silage 15-18 T/A

N/P,O,/K,O

Nitrogen/Phosphate/Potash: 120 / 0 / 0 pounds per acre

Lime is not recommended at this time

Banding a portion or all of the phosphate and potash two inches to the side and below the seed level may result in increased yields on soils testing low in either or both phosphorous and potassium. For soils testing medium or higher, either banding or broadcasting are effective methods of application. If fertilizer is placed directly with the seed, do not apply more than 30 pounds per acre of nitrogen or nitrogen plus potash to prevent seedling injury and loss of stand.

Split applications of nitrogen may be beneficial when nitrogen rates are greater than 120 pounds per acre. See Corn Nitrogen Rate Calculator at www.utcrops.com.

If nitrogen sources containing urea are not incorporated, some loss of nitrogen may occur if applied to moist soils followed by three or more days of rapidly drying conditions without rainfall.

Reduce N rate by 60 to 80 pounds per acre following a winter cover crop of crimson clover or hairy vetch that has reached early bloom stage.

If zinc was tested and is below 2 pounds per acre, apply five pounds of zinc (approximately 15 pounds zinc sulfate) per acre just prior to planting

County: Monroe

Lab Number:

412959

Sample ID

6.7

LINDA

Mehlich 1 SOIL TEST RESULTS and RATINGS* (Pounds Per Acre)

Cu

Copper

Buffer Water Value Phosphorus

Ca Calcium

2456

Mg Magnesium

Zn Zinc

Fe leno

Min Manganese

В Boron Sodium

Na

S Nitrates (ppm)

70 Soluble Organic Matter Saits

> 'Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation) **PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office Visit our web site at http://soilplantandpest.utk.edu for additional information

CARMICHAEL Page 6

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If zinc was tested and is below 2 pounds per acre, apply five pounds of zinc (approximately 15 pounds zinc sulfate) per acre just prior to planting.

County: Knox Lab Number: 426607 Mehlich 1 SOIL TEST RESULTS and RATINGS* (Pounds Per Acre) Sample ID Ca Mg Zn Cu Fe Min В Na S Nitrates Buffer Water Boron **Sodium Phosphorus** Calcium Сорре (ppm) **Potassium** Zinc Iron Manganese Value Magnesium 5.9 7.6 207 Н 1617 S 310 Organic Soluble Matter Salts

RECOMMENDATIONS

FD13TK

Fertilizer/Lime Application Rate and Timing

Corn Silage 15-18 T/A

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 120 / 0 / 0 pounds per acre

Limestone:

2 tons per acre

Banding a portion or all of the phosphate and potash two inches to the side and below the seed level may result in increased yields on soils testing low in either or both phosphorous and potassium. For soils testing medium or higher, either banding or broadcasting are effective methods of application. If fertilizer is placed directly with the seed, do not apply more than 30 pounds per acre of nitrogen or nitrogen plus potash to prevent seedling injury and loss of stand.

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If zinc was tested and is below 2 pounds per acre, apply five pounds of zinc (approximately 15 pounds zinc sulfate) per acre just prior to planting.

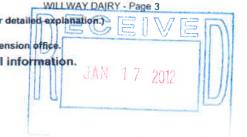
*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.)

**PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office.

Visit our web site at http://soilplantandpest.utk.edu for additional information.

FI



THE UNIVERSITY OF TENNESSEE



Extension

SOIL TEST REPORT

LENA BETH CARMICHAEL 107 WEST COLLEGE STREET

ATHENS, TN 37303

Deborah K. Joines Manager Soil, Plant and Pest Center 5201 Marchant Drive Nashville TN 37211-5112

(615) 832-5850

soliplanipestcenter@utk edu

Date Tested: 10/5/2009

Lab Number: 374749

Ma

County: Knox

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Water Buffer

Ca Calcium Mg

Zπ Cu Zinc Сорде

Min Manganese B

S Sulfur

Nitrates

6.4

Sample

pH Value Phosphorus

Potassium 155 M

2264

476

tron

Boron Sodium

151 Organic Soluble

Matter Salts PPM"

WILA

RECOMMENDATIONS

WILA

Fertilizer/Lime Application Rate and Timing

Small Grain and/or Ryegrass

N / P.O. / K.O

Nitrogen/Phosphate/Potash 60-180 / 0 / 40 pounds per acre

Limestone

Lime is not recommended at this time

For fall grazing apply 60 pounds of nitrogen at time of seeding. For fall and spring grazing apply an additional 45 pounds of nitrogen about March 1 and 45 pounds April 15. For fall grazing and spring hay or sliage, apply 60 pounds of nitrogen at seeding and 60 pounds nitrogen March 1-15. For spring hay or silage only, apply 45 pounds nitrogen at seeding and 60 pounds March 15. Where ryegrass is in the mixture and an additional cutting is expected in the spring, apply an additional 60 pounds of nitrogen per acre immediately after the first cutting. For spring grazing only apply 30 pounds nitrogen per acre at seeding and 45 pounds March 1 and 45 pounds April 15.

County: Knox Sample ID WILB

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Water Buffer

к Phosphorus **Potassium**

208

Ca Calcium

2447 S

Mg Magnesium

594

70 Zinc

Cu Copper

Fo

Mn Manganese

R Na Boron Sodium

Lab Number:

S Nitrates Sulfur

374750

65

Soluble Salts ppar-

142

CARMICHAEL - Page 1

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.)

"PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office.

RECOMMENDATIONS

WILEB

Fertilizer/Lime Application Rate and Timing

Small Grain and/or Ryegrass

N / P.O. / K.O.

Nitrogen/Phosphate/Potash 60-180 / 0 / 0 pounds per acre

2009

Limestone:

Lime is not recommended at this time

For fall grazing apply 60 pounds of nitrogen at time of seeding. For fall and spring grazing apply an additional 45 pounds of nitrogen about March 1 and 45 pounds April 15. For fall grazing and spring hay or silage, apply 60 pounds of nitrogen at seeding and 60 pounds nitrogen March 1-15. For spring hay or silage only, apply 45 pounds nitrogen at seeding and 60 pounds March 15. Where ryegrass is in the mixture and an additional cutting is expected in the spring, apply an additional 60 pounds of nitrogen per acre immediately after the first cutting. For spring grazing only apply 30 pounds nitrogen per acre at seeding and 45 pounds March 1 and 45 pounds April 15.

County: Kno

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Water ρH

Sample ID

Phosphorus Potassium

Ca Calcium

В Min Manganese Boron

Na Sodium

Lab Number:

S **Nitrates** Scillian

374755

(mmm)

6.4

Organic

Matter

3491

Soluble PPM"

The Balion

RECOMMENDATIONS

WILWFG

Fertilizer/Lime Application Rate and Timing

Small Grain and/or Ryegrass

N / P.O. / K.O.

Nitrogen/Phosphate/Potash 60-180 / 0 / 0 pounds per acre

Limestone

Lime is not recommended at this time

For fall grazing apply 60 pounds of nitrogen at time of seeding. For fall and spring grazing apply an additional 45 pounds of nitrogen about March 1 and 45 pounds April 15. For fall grazing and spring hay or silage, apply 60 pounds of nitrogen at seeding and 60 pounds nitrogen March 1-15. For spring hay or silage only, apply 45 pounds nitrogen at seeding and 60 pounds March 15. Where ryegrass is in the mixture and an additional cutting is expected in the spring, apply an additional 60 pounds of nitrogen per acre immediately after the first cutting. For spring grazing only apply 30 pounds nitrogen per acre at seeding and 45 pounds March 1 and 45 pounds April 15.

Mehlich 1 SOIL TEST RESULTS and RATINGS* (Pounds Per Acre)

Sample ID

Buffer

WILWE

Potassium

272 H

Ca Calcium

2340 S

Ma

425

Zn 7 inc

Cu Copper Manganese

Boron

В

Sodkum

Lab Number:

Nitrates (ppm)

ρH 63

Water

Soluble Salts

Organic Matter PPM"

Phosphorus

192

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation) **PPM = Parts per Million

If you have questions about these recommendations, contact your County Extens

RECOMMENDATIONS

WILWH

Fertilizer/Lime Application Rate and Timing

Small Grain and/or Ryegrass

N / P.O. / K-O

Nitrogen/Phosphate/Potash 60-180 / 0 / 0 pounds per acre

Lime is not recommended at this time

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County: K Sample ID

Mehlich 1 SOIL TEST RESULTS and RATINGS'

(Pounds Per Acre)

Water Buffer Value

Phosphorus

Potassium 528

Ca Calcium 4838 S Mg

1304

Zn Zinc

Cu Copper

Fe tron

Min В Manganese Borna

Na Sodium

Lab Number:

S **Nitrates** Sulfur

374757

(nom)

58

406 Organic Soluble

Matter Salts

RECOMMENDATIONS

WILWI

Fertilizer/Lime Application Rate and Timing

Small Grain and/or Ryegrass

N / P₂O_x / K₂O

Nitrogen/Phosphate/Potash 60-180 / 0 / 0 pounds per acre

Limestone

Lime is not recommended at this time

For fall grazing apply 60 pounds of nitrogen at time of seeding. For fall and spring grazing apply an additional 45 pounds of nitrogen about March 1 and 45 pounds April 15. For fall grazing and spring hay or silage, apply 60 pounds of nitrogen at seeding and 60 pounds nitrogen March 1-15. For spring hay or silage only, apply 45 pounds nitrogen at seeding and 60 pounds March 15. Where ryegrass is in the mixture and an additional cutting is expected in the spring, apply an additional 60 pounds of nitrogen per acre immediately after the first cutting. For spring grazing only apply 30 pounds nitrogen per acre at seeding and 45 pounds March 1 and 45 pounds April 15

County: Knox WILWJ

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Water Buffer ρН Value

P **Phosphorus** Potassium

238

Calcium

2654

Mg Magnesium

Zn Zinc

Cu Copper

Mn Fe Manganese tron

8 Boron

Lab Number:

Na 8 Sodium Sulfur

Nitrates

374758

Organic Solubie

Matter

Salts PPM

CARMICHAEL - Page 5

"Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.)

"PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office.





SOIL TEST REPORT

WILLWAY DAIRY 5290 HOLT RD

SWEETWATER, TN 37874

Deborah K. Joines
Manager
Soil, Plant and Pest Center
5201 Marchant Drive
Nashville, TN 37211-5112
(615) 832-5850
soilplantpestcenter@utk.edu

Lab Number:

426604

Date Tested: 12/6/2011

County: Knox

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(D. L.D. A.)

Sample ID FD15TK1

(Pounds Per Acre)

κ Ca Zn Cu Fe Mn В Na s Nitrates Ma Water Buffer Phosphorus Potassium Calcium Magnesium Zinc Boron Sodium Sulfur рΗ Value Copper Iron Manganese (ppm)

6.9 169 V 273 H 3329 S 855 S

Organic Soluble
Matter Salts
PPM**

RECOMMENDATIONS

FD15TK1

Fertilizer/Lime Application Rate and Timing

Corn Silage 15-18 T/A

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 120 / 0 / 0 pounds per acre

Limestone:

Lime is not recommended at this time

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If zinc was tested and is below 2 pounds per acre, apply five pounds of zinc (approximately 15 pounds zinc sulfate) per acre just prior to planting.

County: Knox

Lab Number:

426605

WILLWAY DAIRY - Page 1

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If you have questions about these recommendations, contact your County Extension office.

Visit our web site at http://soilplantandpest.utk.edu for additional information.

N 1 7 2012

Mehlich 1 SOIL TEST RESULTS and RATINGS* Sample ID FD10TK1 (Pounds Per Acre)

В Na S **Nitrates** Ca Cu Fe Mn Zη κ Mg Water Buffer Boron Sodium Sulfur (maga) Copper Manganese **Phosphorus** Potassium Calcium Magnesium Zinc. Iron Value pН 1473 S 300 6.0 76 30 AA 189 H

Organic Soluble
Matter Salts
% PPM**

RECOMMENDATIONS

FD10TK1

Fertilizer/Lime Application Rate and Timing

Corn Silage 15-18 T/A

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 120 / 60 / 0 pounds per acre

Limestone:

2 tons per acre

Banding a portion or all of the phosphate and potash two inches to the side and below the seed level may result in increased yields on soils testing low in either or both phosphorous and potassium. For soils testing medium or higher, either banding or broadcasting are effective methods of application. If fertilizer is placed directly with the seed, do not apply more than 30 pounds per acre of nitrogen or nitrogen plus potash to prevent seedling injury and loss of stand.

Split applications of nitrogen may be beneficial when nitrogen rates are greater than 120 pounds per acre. See Corn Nitrogen Rate Calculator at www.utcrops.com.

If nitrogen sources containing urea are not incorporated, some loss of nitrogen may occur if applied to moist soils followed by three or more days of rapidly drying conditions without rainfall.

Reduce N rate by 60 to 80 pounds per acre following a winter cover crop of crimson clover or hairy vetch that has reached early bloom stage.

If zinc was tested and is below 2 pounds per acre, apply five pounds of zinc (approximately 15 pounds zinc sulfate) per acre just prior to planting.

County: Knox Lab Number: 426606

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID FD5TK1

(Pounds Per Acre)

В Na S Nitrates ĸ Ca Zn Cu Fe Mn Ma Water Buffer Boron Sodium Copper Manganese **Phosphorus** Potassium Calcium Magnesium Zinc Iron Value pΗ

5.9 7.6 104 *H* 228 *H* 1601 S 223 S

Organic Soluble
Matter Salts
PPM**

RECOMMENDATIONS

FD5TK1

Fertilizer/Lime Application Rate and Timing

Corn Silage 15-18 T/A

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 120 / 0 / 0 pounds per acre

Limestone:

2 tons per acre

WILLWAY DAIRY - Page 2

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.)

**PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office.

Visit our web site at http://soilplantandpest.utk.edu for additional_information.

JAN 17 200

Banding a portion or all of the phosphate and potash two inches to the side and below the seed level may result in increased yields on soils testing low in either or both phosphorous and potassium. For soils testing medium or higher, either banding or broadcasting are effective methods of application. If fertilizer is placed directly with the seed, do not apply more than 30 pounds per acre of nitrogen or nitrogen plus potash to prevent seedling injury and loss of stand.

Split applications of nitrogen may be beneficial when nitrogen rates are greater than 120 pounds per acre. See Corn Nitrogen Rate Calculator at www.utcrops.com.

If nitrogen sources containing urea are not incorporated, some loss of nitrogen may occur if applied to moist soils followed by three or more days of rapidly drying conditions without rainfall.

Reduce N rate by 60 to 80 pounds per acre following a winter cover crop of crimson clover or hairy vetch that has reached early bloom stage.

If zinc was tested and is below 2 pounds per acre, apply five pounds of zinc (approximately 15 pounds zinc sulfate) per acre just prior to planting.

Cou	ınty:K	nox											L	ab Nu	mber:	4266	307
Comm	la ID	ED4	3ТК		M	ehlich	1	SOIL			JLTS and Per Acre		INGS*				
Samp Water pH	Buffer Value		P	K Potass	ium	Ca Calciu	ım	Mg Magne	` I	Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
5.9	7.6 Orga	81	<i>H</i> Soluble	207	Н	1617	S	310	S								
	Mat %	ter	Salts PPM**														

RECOMMENDATIONS

FD13TK

Fertilizer/Lime Application Rate and Timing

Corn Silage 15-18 T/A

N / P2O5/ K2O

Nitrogen/Phosphate/Potash: 120 / 0 / 0 pounds per acre

Limestone:

2 tons per acre

Banding a portion or all of the phosphate and potash two inches to the side and below the seed level may result in increased yields on soils testing low in either or both phosphorous and potassium. For soils testing medium or higher, either banding or broadcasting are effective methods of application. If fertilizer is placed directly with the seed, do not apply more than 30 pounds per acre of nitrogen or nitrogen plus potash to prevent seedling injury and loss of stand.

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If nitrogen sources containing urea are not incorporated, some loss of nitrogen may occur if applied to moist soils followed by three or more days of rapidly drying conditions without rainfall.

Reduce N rate by 60 to 80 pounds per acre following a winter cover crop of crimson clover or hairy vetch that has reached early bloom stage.

If zinc was tested and is below 2 pounds per acre, apply five pounds of zinc (approximately 15 pounds zinc sulfate) per acre just prior to planting.

WILLWAY DAIRY - Page 3

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.)

**PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office.

Visit our web site at http://soilplantandpest.utk.edu for additional information.

JAN 1.7 2012



Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID FD10TK1 (Pounds Per Acre)

Zn Fe Mn В Na S Mg Cu Water Buffer Sulfur **Phosphorus** Calcium Manganese Boron Sodium Zinc Copper (ppm) pH Value Magnesium Iron

6.0 7.6 30 189 1473 S 300 S

> Organic Soluble Matter Salts

RECOMMENDATIONS

FD10TK1

Fertilizer/Lime Application Rate and Timing

Corn Silage 15-18 T/A

N/P,O,/K,O

Nitrogen/Phosphate/Potash: 120 / 60 / 0 pounds per acre

Limestone:

2 tons per acre

Banding a portion or all of the phosphate and potash two inches to the side and below the seed level may result in increased yields on soils testing low in either or both phosphorous and potassium. For soils testing medium or higher, either banding or broadcasting are effective methods of application. If fertilizer is placed directly with the seed, do not apply more than 30 pounds per acre of nitrogen or nitrogen plus potash to prevent seedling injury and loss of stand.

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Reduce N rate by 60 to 80 pounds per acre following a winter cover crop of crimson clover or hairy vetch that has reached early bloom stage.

If zinc was tested and is below 2 pounds per acre, apply five pounds of zinc (approximately 15 pounds zinc sulfate) per acre just prior to planting.

County: Knox

Lab Number: Mehlich 1 SOIL TEST RESULTS and RATINGS*

426606

Sample ID

(Pounds Per Acre)

Ca Water Buffer Mg Zn Cu Fe Mn В Na Nitrates **Phosphorus** Calcium pH Value Magnesium Zinc Copper Iron Boron Sodium Sulfur (nom)

5.9 7.6 104 H 228 Н 1601 S

> Organic Matter Salts PPM*

> > RECOMMENDATIONS

FD5TK1

Fertilizer/Lime Application Rate and Timing

Corn Silage 15-18 T/A

N/P,O,/K,O

Nitrogen/Phosphate/Potash: 120 / 0 / 0 pounds per acre

Limestone:

2 tons per acre

WILLWAY DAIRY - Page 2

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.)

**PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office.

RECOMMENDATIONS

WILB

Fertilizer/Lime Application Rate and Timing

Small Grain and/or Ryegrass

N / P,O, / K,O

Nitrogen/Phosphate/Potash 60-180 / 0 / 0 pounds per acre

2009

Lime is not recommended at this time

For fall grazing apply 60 pounds of nitrogen at time of seeding. For fall and spring grazing apply an additional 45 pounds of nitrogen about March 1 and 45 pounds April 15. For fall grazing and spring hay or silage, apply 60 pounds of nitrogen at seeding and 60 pounds nitrogen March 1-15. For spring hay or silage only, apply 45 pounds nitrogen at seeding and 60 pounds March 15. Where ryegrass is in the mixture and an additional cutting is expected in the spring, apply an additional 60 pounds of nitrogen per acre immediately after the first cutting. For spring grazing only apply 30 pounds nitrogen per acre at seeding and 45 pounds March 1 and 45 pounds April 15

Mehlich 1 SOIL TEST RESULTS and RATINGS

(Pounds Per Acre)

Sample ID

Phosphorus

Calcium

2inc Magnesium

Fe Mn

9 Boron

Lab Number:

Sulfre

374751

(nom)

ρH

Potassium 188

2697 S 698

Cu Copper

Na Sodium

6.7

148

Soluble Organic Salts Matter PPM"

RECOMMENDATIONS

WILC

Fertilizer/Lime Application Rate and Timing

Small Grain and/or Ryegrass

N / P.O. / K.O.

NitrogeniPhosphateiPotash 60-180 / 0 / 0 pounds per acre

Lime is not recommended at this time

For fall grazing apply 60 pounds of nitrogen at time of seeding. For fall and spring grazing apply an additional 45 pounds of nitrogen about March 1 and 45 pounds April 15. For fail grazing and spring hay or sitage, apply 60 pounds of nitrogen at seeding and 60 pounds nitrogen March 1-15. For spring hay or silage only, apply 45 pounds nitrogen at seeding and 60 pounds March 15. Where ryegrass is in the mixture and an additional cutting is expected in the spring, apply an additional 60 pounds of nitrogen per acre immediately after the first cutting. For spring grazing only apply 30 pounds nitrogen per acre at seeding and 45 pounds March 1 and 45 pounds April 15.

WILD

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Water Buffer pН

Phosphorus

Potassium

210

Ca Calcium

2945 S

Ma

674

Zn Zinc

Cu Copper

Fe tron

Ma Manganese

я Boron

Lab Number:

Na Sodium Suffur

Nitrates

6.7

Soluble

Organic %

163

CARMICHAEL - Page 2

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.) "PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office.

RECOMMENDATIONS

WILD

Fertilizer/Lime Application Rate and Timing

Small Grain and/or Ryegrass

N/P,O4/K,O

Nitrogen/Phosphate/Potash 60-180 / 0 / 0 pounds per acre

2009

Lab Number:

Lab Number:

374753

374754

Limestone

Lime is not recommended at this time

For fall grazing apply 60 pounds of nitrogen at time of seeding. For fall and spring grazing apply an additional 45 pounds of nitrogen about March 1 and 45 pounds April 15. For fall grazing and spring hay or silage, apply 60 pounds of nitrogen at seeding and 60 pounds nitrogen March 1-15. For spring hay or silage only, apply 45 pounds nitrogen at seeding and 60 pounds March 15. Where ryegrass is in the mixture and an additional cutting is expected in the spring, apply an additional 60 pounds of nitrogen per acre immediately after the first cutting. For spring grazing only apply 30 pounds nitrogen per acre at seeding and 45 pounds March 1 and 45 pounds April 15

Mehlich 1 SOIL TEST RESULTS and RATINGS

(Pounds Per Acre)

Fe Mko В Cu к Ca Mg 7n Water Buffer Sodium Sulfur Phosphorus Zinc Copper Boron (nom) Calcium pH! Value

6.4 2203 S 85 H 203 H 308

> Organic Soluble Matter Salts PPM

> > RECOMMENDATIONS

WILET

Fertilizer/Lime Application Rate and Timing

Small Grain and/or Ryegrass

N / P, C, / K, O

Nitrogen/Phosphate/Potash 60-180 / 0 / 0 pounds per acre

Lime is not recommended at this time

For fall grazing apply 60 pounds of nitrogen at time of seeding. For fall and spring grazing apply an additional 45 pounds of nitrogen about March 1 and 45 pounds April 15. For fall grazing and spring hay or silage, apply 60 pounds of nitrogen at seeding and 60 pounds nitrogen March 1-15. For spring hay or silage only, apply 45 pounds nitrogen at seeding and 60 pounds March 15. Where ryegrass is in the mixture and an additional cutting is expected in the spring, apply an additional 60 pounds of nitrogen per acre immediately after the first cutting. For spring grazing only apply 30 pounds nitrogen per acre at seeding and 45 pounds March 1 and 45 pounds April 15.

Sample ID WALEB

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Water Ċa Ma Cu Fe R Mrs Na **Nitrates Phosphorus** Potassium Value Magnesium Zinc Copper Iron Sodium Sulfur 6.3 94 H 213 H 1626 S 331

Organic Soluble Malter Salts

CARMICHAEL Page *Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.) **PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office

SOIL TEST REPORT

WILLWAY DAIRY 5290 HOLT RD

SWEETWATER, TN 37874

Manager Soil, Plant and Pest Center 5201 Marchant Drive Nashville, TN 37211-5112 (615) 832-5850 soilplantpestcenter@utk.edu

Date Tested: 12/6/2011

County: Knox

Lab Number:

426604

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID FD15TK1 (Pounds Per Acre)

Mn В Na S Nitratos Water Calcium Zinc Copper Iron Manganese Sodium Suffur Phosphorus Magnesium

6.9 169 273 H 3329 S 855

> Organic Soluble Matter Salts PPM*

RECOMMENDATIONS

FD15TK1

Fertilizer/Lime Application Rate and Timing

Corn Silage 15-18 T/A

N/P2O5/K2O

Nitrogen/Phosphate/Potash 120 / 0 / 0 pounds per acre

Limestone:

Lime is not recommended at this time

Banding a portion or all of the phosphate and potash two inches to the side and below the seed level may result in increased yields on soils testing low in either or both phosphorous and potassium. For soils testing medium or higher, either banding or broadcasting are effective methods of application. If fertilizer is placed directly with the seed, do not apply more than 30 pounds per acre of nitrogen or nitrogen plus potash to prevent seedling injury and loss of stand.

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Reduce N rate by 60 to 80 pounds per acre following a winter cover crop of crimson clover or hairy vetch that has reached early bloom stage.

If zinc was tested and is below 2 pounds per acre, apply five pounds of zinc (approximately 15 pounds zinc sulfate) per acre just prior to planting.

County: Knox

Lab Number: 426605

WILLWAY DAIRY - Page 1

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.)

**PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office

Operation: Plan File:

Willway Dairy

County:

Monroe Plan Saved:

1/8/2012 11/8/2011

WillwayDairytest1.mmp

State: Tennessee Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016

Init. File Rev:

Crop Years:

2012-2016

Soils File Rev:

8/29/2011

Field: T-1 F-5 Crop Year: 2012

Site Information	Value for P Index Calculation								
Part A: Phosphorus loss poten	Part A: Phosphorus loss potential due to site and transport characteristics								
Hydrologic Soil Group	2	Medium							
Erosion Potential	Slope: 10.0, Cover: Pasture/Hay	2	Low						
Permanent Vegetative Buffer	ive Buffer Vegetative buffer width: 40 ft								
Non-Application Width from Surface Water Conveyance	1	Low							
	Part A Total	6							
Part B: Phosphorus loss poten	tial due to source and management characteristics								
Soil Test P	52 ppm	4	High						
P Application Rate	None applied.	0	Low						
Application Timing	None applied.	0	Low						
Application Method	None applied.	0	Low						
	Part B Total	4							
	P Index (Part A x Part B)	24	Low						

Field: T-1 F-5 Crop Year: 2013

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss potent	tial due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: Pasture/Hay	2	Low
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 175 ft	1	Low
1710	Part A Total	6	
Part B: Phosphorus loss potent	tial due to source and management characteristics		
Soil Test P	52 ppm	4	High
P Application Rate	None applied., Manure: 81 lbs P ₂ O ₅ /ac	8	Very high
Application Timing	Jul	1	Low
Application Method	Surface applied (no incorporation)	8	Very high
2.1	Part B Total	21	
	P Index (Part A x Part B)	126	Medium

Field: T-1 F-5 Crop Year: 2014

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation
Part A: Phosphorus loss pote	ential due to site and transport characteristics	
Hydrologic Soil Group	Hydrologic group: B	2 Medium
Erosion Potential	Slope: 10.0, Cover: Pasture/Hay	2 Low

1/8/2012 1:26:44 PM

Operation:

Willway Dairy

County:

Monroe

Plan Saved:

1/8/2012

Plan File: Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016

WillwayDairytest1.mmp

State:

Tennessee

Init. File Rev:

11/8/2011 Crop Years:

2012-2016

Soils File Rev:

8/29/2011

Site Information	Site Information		e for P Index alculation
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 175 ft	1	Low
	Part A Total	6	
Part B: Phosphorus loss poten	tial due to source and management characteristics		
Soil Test P	52 ppm	4	High
P Application Rate	None applied., Manure: 81 lbs P ₂ O ₅ /ac	8	Very high
Application Timing	Jul	1	Low
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	21	
	P Index (Part A x Part B)	126	Medium

Field: T-1 F-5 Crop Year: 2015

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss poten	tial due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: Pasture/Hay	2	Low
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 175 ft	1	Low
	Part A Total	6	
Part B: Phosphorus loss potent	tial due to source and management characteristics		
Soil Test P	52 ppm	4	High
P Application Rate	None applied., Manure: 81 lbs P₂O₅/ac	8	Very high
Application Timing	Jul	1	Low
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	21	
	P Index (Part A x Part B)	126	Medium

Field: T-1 F-5 Crop Year: 2016

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Part A: Phosphorus loss potent	tial due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: Pasture/Hay	2	Low
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 175 ft	C	E [LOWE [
	Part A Total	6	

Part B: Phosphorus loss potential due to source and management characteristics

Operation:

Willway Dairy

County:

Monroe

Plan Saved:

1/8/2012 11/8/2011

Plan File:

WillwayDairytest1.mmp

State:

Tennessee

Init. File Rev:

Crop Years:

Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016 2012-2016

Soils File Rev:

8/29/2011

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Soil Test P	52 ppm	4	High
P Application Rate	None applied., Manure: 81 lbs P ₂ O ₅ /ac	8	Very high
Application Timing	Jul	1	Low
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	21	
	P Index (Part A x Part B)	126	Medium

Field: T-1 F-6 Cron Year: 2012

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss poten	tial due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: Pasture/Hay	2	Low
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 150 ft	1	Low
	Part A Total	6	
Part B: Phosphorus loss poten	tial due to source and management characteristics		
Soil Test P	52 ppm	4	High
P Application Rate	None applied.	0	Low
Application Timing	None applied.	0	Low
Application Method	None applied.	0	Low
11/1	Part B Total	4	
	P Index (Part A x Part B)	24	Low

Field: T-1 F-6 Crop Year: 2013

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss potent	tial due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: Pasture/Hay	2	Low
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 150 ft	1	Low
	Part A Total	6	
Part B: Phosphorus loss potent	tial due to source and management characteristics		
Soil Test P	52 ppm	4	High
P Application Rate	None applied., Manure: 162 lbs P ₂ O ₅ /ac	16	Very high
Application Timing Application Method	Jul Surface applied (no incorporation)	18	Low Very high

Operation:

Willway Dairy

County:

Monroe

Plan Saved:

1/8/2012

Plan File: Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016

WillwayDairytest1.mmp

State:

Tennessee

Init. File Rev:

11/8/2011 Crop Years:

2012-2016

Soils File Rev:

8/29/2011

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
	Part B Total	29	
	P Index (Part A x Part B)	174	Medium

Field: T-1 F-6 Crop Year: 2014

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss poten	tial due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: Pasture/Hay	2	Low
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 150 ft	1	Low
	Part A Total	6	
Part B: Phosphorus loss poten	tial due to source and management characteristics		
Soil Test P	52 ppm	4	High
P Application Rate	None applied., Manure: 81 lbs P ₂ O ₅ /ac	8	Very high
Application Timing	Jul	1	Low
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	21	
	P Index (Part A x Part B)	126	Medium

Field: T-1 F-6 Crop Year: 2015

Information Used to Determine P Loss Rating	Value for P Index Calculation	
tial due to site and transport characteristics		
Hydrologic group: B	2	Medium
Slope: 5.0, Cover: Pasture/Hay	2	Low
Vegetative buffer width: 40 ft	1	Low
Distance to water: 150 ft	1	Low
Part A Total	6	
itial due to source and management characteristics		
52 ppm	4	High
None applied., Manure: 81 lbs P₂O₅/ac	8	Very high
Jul	1	Low
Surface applied (no incorporation)	8	Very high
Part B Total	21	
P Index (Part A x Part B)	126	Medium
	Hydrologic group: B Slope: 5.0, Cover: Pasture/Hay Vegetative buffer width: 40 ft Distance to water: 150 ft Part A Total Itial due to source and management characteristics 52 ppm None applied., Manure: 81 lbs P ₂ O ₅ /ac Jul Surface applied (no incorporation) Part B Total	Information Used to Determine P Loss Rating tial due to site and transport characteristics Hydrologic group: B Slope: 5.0, Cover: Pasture/Hay Vegetative buffer width: 40 ft Distance to water: 150 ft Part A Total This is a possible of the source and management characteristics 52 ppm None applied., Manure: 81 lbs P ₂ O ₅ /ac Jul Surface applied (no incorporation) Part B Total Control of the site of the sit

Field: T-1 F-6 Crop Year: 2016

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Ten: essee Phosphorus Inuex County: Monroe Pla

Operation: Plan File:

Willway Dairy

Plan Saved:

1/8/2012

Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016

WillwayDairytest1.mmp

State:

Tennessee

Init. File Rev:

11/8/2011 Crop Years:

2012-2016

Soils File Rev:

8/29/2011

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss potent	tial due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: Pasture/Hay	2	Low
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 150 ft	_x 1	Low
	Part A Total	6	
Part B: Phosphorus loss potent	tial due to source and management characteristics		
Soil Test P	52 ppm	4	High
P Application Rate	None applied., Manure: 81 lbs P ₂ O ₅ /ac	8	Very high
Application Timing	Jul	1	Low
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	21	
	P Index (Part A x Part B)	126	Medium

Field: T-1 F-7 Crop Year: 2012

Site Information	Information Used to Determine P Loss Rating		e for P Index		
Part A: Phosphorus loss potential due to site and transport characteristics					
Hydrologic Soil Group	Hydrologic group: B	2	Medium		
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	- 4	Medium		
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low		
Non-Application Width from Surface Water Conveyance	Distance to water: 600 ft	1	Low		
	Part A Total	8			
Part B: Phosphorus loss pot	ential due to source and management characteristics				
Soil Test P	143 ppm	8	Very high		
P Application Rate	None applied.	0	Low		
Application Timing	None applied.	0	Low		
Application Method	None applied.	0	Low		
	Part B Total	8			
	P Index (Part A x Part B)	64	Low		

Field: T-1 F-7 Crop Year: 2013

Site Information	Info	ormation Used to Determine P Loss Ratin	g	II (Value for P Index Calculation	
Part A: Phosphorus loss po	tential due	to site and transport characteristics				
Hydrologic Soil Group Erosion Potential	Slope: 1	Hydrologic group: B I 0.0, Cover: No-till w/ light to medium res Slope len.: 100 m	idue	s	E ² ©	Medium Medium
	*		Ш		JAN	1 7 2012
MMP 0.3.1.0 / Report Version 2009.0	2.20	Page 5 of 39	IU			1/8/2012 1:26:44 PM

Operation:

Willway Dairy

County:

Monroe

Plan Saved:

1/8/2012 11/8/2011

Plan File: Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016

WillwayDairytest1.mmp

State:

Tennessee

Init. File Rev:

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2012-2016

Soils File Rev:

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Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation		
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low	
Non-Application Width from Surface Water Conveyance	Distance to water: 600 ft	1	Low	
•	Part A Total	8		
Part B: Phosphorus loss poten	tial due to source and management characteristics			
Soil Test P	143 ppm	8	Very high	
P Application Rate	None applied., Manure: 60 lbs P ₂ O ₅ /ac	6	Very high	
Application Timing	Sep	1	Low	
Application Method	Injected	1	Low	
	Part B Total	16		
	P Index (Part A x Part B)	128	Medium	

Field: T-1 F-7 Crop Year: 2014

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 600 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	143 ppm	8	Very high
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	Apr	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	20	
	P Index (Part A x Part B)	160	Medium

Field: T-1 F-7 Crop Year: 2015

Site Information	Information Used to Determine P Loss Rating			e for P Index alculation
Part A: Phosphorus loss pote	ential due to site and transport characteristics			
Hydrologic Soil Group	Hydrologic group: B	2	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	ļ	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1		Low
Non-Application Width from Surface Water Conveyance	Distance to water: 600 ft	Di		
110	Part A Total	以	}	

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Site Information	Information Used to Determine P Loss Rating	Value for P Inde		
Part B: Phosphorus loss potential due to source and management characteristics				
Soil Test P	143 ppm	8	Very high	
P Application Rate	None applied., Manure: 60 lbs P ₂ O ₅ /ac	6	Very high	
Application Timing	Sep	1	Low	
Application Method	Injected	1	Low	
	Part B Total	16		
·	P Index (Part A x Part B)	128	Medium	

Field: T-1 F-7 Crop Year: 2016

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation			
Part A: Phosphorus loss pote	Part A: Phosphorus loss potential due to site and transport characteristics					
Hydrologic Soil Group	Hydrologic group: B	2	Medium			
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium			
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low			
Non-Application Width from Surface Water Conveyance	Distance to water: 600 ft	1	Low			
	Part A Total	8				
Part B: Phosphorus loss pote	ential due to source and management characteristics		Y			
Soil Test P	143 ppm	8	Very high			
P Application Rate	None applied., Manure: 60 lbs P ₂ O ₅ /ac	6	Very high			
Application Timing	Sep	1	Low			
Application Method	Injected	1	Low			
	Part B Total	16				
	P Index (Part A x Part B)	128	Medium			

Field: T-1 F-8 Crop Year: 2012

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation		
Part A: Phosphorus loss pote	Part A: Phosphorus loss potential due to site and transport characteristics				
Hydrologic Soil Group	Hydrologic group: B	2	Medium		
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium		
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low		
Non-Application Width from Surface Water Conveyance	Distance to water: 425 ft	1	Low		
-	Part A Total	8			

Part B: Phosphorus loss potential due to source and management characteristics

Soil Test P
P Application Rate

143 ppm
None applied.

143 ppm
0 Low

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Operation:

Willway Dairy

County:

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Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Application Timing	None applied.	0	Low
Application Method	None applied.	0	Low
	Part B Total	8	
	P Index (Part A x Part B)	64	Low

Field: T-1 F-8 Crop Year: 2013

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 425 ft	1	Low
•	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	143 ppm	8	Very high
P Application Rate	None applied., Manure: 60 lbs P ₂ O ₅ /ac	6	Very high
Application Timing	Sep	1	Low
Application Method	Injected	1	Low
	Part B Total	16	
	P Index (Part A x Part B)	128	Medium

Field: T-1 F-8 Crop Year: 2014

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation		
Part A: Phosphorus loss potential due to site and transport characteristics					
Hydrologic Soil Group	Hydrologic group: B	2	Medium		
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium		
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low		
Non-Application Width from Surface Water Conveyance	Distance to water: 425 ft	1	Low		
	Part A Total	8			
Part B: Phosphorus loss pote	ential due to source and management characteristics				
Soil Test P	143 ppm	8	Very high		
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium		
Application Timing	Apr	2	Medium		
Application Method	Surface applied (no incorporation)	& IE	- Nery high		
	Part B Total	20			

Operation:

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Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
	P Index (Part A x Part B)	160	Medium

Field: T-1 F-8 Crop Year: 2015

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation		
Part A: Phosphorus loss pote	Part A: Phosphorus loss potential due to site and transport characteristics			
Hydrologic Soil Group	Hydrologic group: B	2	Medium	
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium	
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low	
Non-Application Width from Surface Water Conveyance	Distance to water: 425 ft	1	Low	
Part A Total		8		
Part B: Phosphorus loss pote	ential due to source and management characteristics		·	
Soil Test P	143 ppm	8	Very high	
P Application Rate	None applied., Manure: 60 lbs P ₂ O ₅ /ac	6	Very high	
Application Timing	Sep	1	Low	
Application Method	Injected	1	Low	
	Part B Total	16		
	P Index (Part A x Part B)	128	Medium	

Field: T-1 F-8 Crop Year: 2016

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss potential due to site and transport characteristics			
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 425 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss potential due to source and management characteristics			
Soil Test P	143 ppm	8	Very high
P Application Rate	None applied., Manure: 60 lbs P ₂ O ₅ /ac	6	Very high
Application Timing	Sep	1	Low
Application Method	Injected	1	Low
	Part B Total	16	
	P Index (Part A x Part B)	128	Medium

Field: T-1 F-10 Crop Year: 2012

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Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss poter	ntial due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: Pasture/Hay	2	Low
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 250 ft	1	Low
	Part A Total	6	
Part B: Phosphorus loss poter	ntial due to source and management characteristics		
Soil Test P	15 ppm	1	Low
P Application Rate	None applied., Manure: 18 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	Mar, w/ cover	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
*	Part B Total	13	
	P Index (Part A x Part B)	78	Low

Field: T-1 F-10 Crop Year: 2013

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss potent	tial due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: Pasture/Hay	2	Low
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 250 ft	1	Low
	Part A Total	6	
Part B: Phosphorus loss potent	ial due to source and management characteristics		
Soil Test P	15 ppm	1	Low
P Application Rate	None applied., Manure: 46 lbs P ₂ O ₅ /ac	5	High
Application Timing	Oct	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	16	
	P Index (Part A x Part B)	96	Low

Field: T-1 F-10 Crop Year: 2014

Site Information	Information Used to Determine P Loss Rating		Value for P Index Calculation	
Part A: Phosphorus loss potentia	al due to site and transport characteristi	cs		
Hydrologic Soil Group	Hydrologic group: B		2	Medium
Erosion Potential	Slope: 10.0, Cover: Pasture/Hay	DE(C君	
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft			Low
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Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Non-Application Width from Surface Water Conveyance	Distance to water: 250 ft	1 Low	
	Part A Total	6	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	15 ppm	1	Low
P Application Rate	None applied., Manure: 45 lbs P ₂ O ₅ /ac	5	High
Application Timing	Oct	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	16	
	P Index (Part A x Part B)	96	Low

Field: T-1 F-10 Crop Year: 2015

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss poter	ntial due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: Pasture/Hay	2	Low
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 250 ft	1	Low
•	Part A Total	6	
Part B: Phosphorus loss poter	ntial due to source and management characteristics		
Soil Test P	15 ppm	1	Low
P Application Rate	None applied., Manure: 46 lbs P ₂ O ₅ /ac	5	High
Application Timing	Nov, w/ cover	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	16	
	P Index (Part A x Part B)	96	Low

Field: T-1 F-10 Crop Year: 2016

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Part A: Phosphorus loss potent	tial due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: Pasture/Hay	2	Low
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 250 ft	1	Low
	Part A Total	E6	EIVE

Part B: Phosphorus loss potential due to source and management characteristics

Soil Test P

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15 ppm

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Site Information	Information Used to Determine P Loss Rating		e for P Index Calculation
P Application Rate	None applied., Manure: 46 lbs P ₂ O ₅ /ac	5	High
Application Timing	Nov, w/ cover	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	16	
	P Index (Part A x Part B)	96	Low

Field: T-1 F-13 Crop Year: 2012

Site Information	Information Used to Determine P Loss Rating	Value for P Inde Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 425 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	40 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	Apr	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	16	
	P Index (Part A x Part B)	128	Medium

Field: T-1 F-13 Crop Year: 2013

Site Information	Information Used to Determine P Loss Rating		e for P Index Calculation
Part A: Phosphorus loss poter	ntial due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 425 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss poter	ntial due to source and management characteristics		
Soil Test P	40 ppm	4	High
P Application Rate	None applied., Manure: 60 lbs P ₂ O ₅ /ac	6	Very high
Application Timing	Sep Sep	CE	
Application Method	Injected	1 AN 1 2	2012
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Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
	Part B Total	12	
	P Index (Part A x Part B)	96	Low

Field: T-1 F-13 Crop Year: 2014

Site Information	Information Used to Determine P Loss Rating		e for P Index
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 425 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		<u> </u>
Soil Test P	40 ppm	4	High
P Application Rate	None applied., Manure: 105 lbs P ₂ O ₅ /ac	11	Very high
Application Timing	Apr	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	25	
	P Index (Part A x Part B)	200	Medium

Field: T-1 F-13 Crop Year: 2015

Site Information	Information Used to Determine P Loss Rating		e for P Index
Part A: Phosphorus loss pot	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 425 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pot	ential due to source and management characteristics		
Soil Test P	40 ppm	4	High
P Application Rate	None applied.	0	Low
Application Timing	None applied.	0	Low
Application Method	None applied.	0	Low
	Part B Total	4	
	P Index (Part A x Part B)	(32 [E II / LZOWE I

Field: T-1 F-13

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Tennessee Phosphorus Index

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Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 425 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	40 ppm	4	High
P Application Rate	None applied., Manure: 81 lbs P ₂ O ₅ /ac	8	Very high
Application Timing	Sep	1	Low
Application Method	Injected	1	Low
	Part B Total	14	
	P Index (Part A x Part B)	112	Medium

Field: T-1 F-14 Crop Year: 2012

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 75 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 175 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	71 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	May	2	Medium
Application Method	Incorporated within 5 days of application	2	Medium
	Part B Total	10	
	P Index (Part A x Part B)	80	Low

Field: T-1 F-14 Crop Year: 2013

Site Information	Information Used to Determine P Loss Rating		Value for P Index Calculation
Part A: Phosphorus loss potent	ial due to site and transport characteristics	10	FCEIVE
Hydrologic Soil Group	Hydrologic group: B		2 Medium
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Site Information	Site Information		e for P Index
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 75 m		Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 175 ft	1	Low
Part A Total			
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	71 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	May	2	Medium
Application Method	Incorporated within 5 days of application	2	Medium
Part B Total			
	P Index (Part A x Part B)	80	Low

Field: T-1 F-14 Crop Year: 2014

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 75 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 175 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	71 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	May	2	Medium
Application Method	Incorporated within 5 days of application	2	Medium
	Part B Total	10	
	P Index (Part A x Part B)	80	Low

Field: T-1 F-14 Crop Year: 2015

Information Used to Determine P Loss Rating		e for P Index alculation
ntial due to site and transport characteristics		
Hydrologic group: B	2	Medium
Slope: 5.0, Cover: No-till w/ light to medium residues,	4	Medium
Vegetative buffer width: 40 ft	C	E O VOWE IT
	Hydrologic group: B Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 75 m	Information Used to Determine P Loss Rating Information Used To De

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Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation 1 Low	
Non-Application Width from Surface Water Conveyance	Distance to water: 175 ft		
	Part A Total	8	
Part B: Phosphorus loss poter	ntial due to source and management characteristics		
Soil Test P	71 ppm	4	High
P Application Rate	None applied., Manure: 105 lbs P ₂ O ₅ /ac	10	Very high
Application Timing	May	2	Medium
Application Method	Incorporated within 5 days of application	2	Medium
Part B Total		18	
	P Index (Part A x Part B)	144	Medium

Field: T-1 F-14 Crop Year: 2016

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 75 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 175 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	71 ppm	4	High
P Application Rate	None applied., Manure: 84 lbs P ₂ O ₅ /ac	8	Very high
Application Timing	May	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	22	
	P Index (Part A x Part B)	176	Medium

Field: T-1 F-15 Crop Year: 2012

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 8.0, Cover: No-till w/ light to medium residues, Slope len.: 75 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 675 ft	G	You
-	Part A Total	8	0010
Part B: Phosphorus loss pote	ential due to source and management characteristics	JAN	7 2012

Tennessee Phosphorus Inuex

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Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Soil Test P	84 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	May	2	Medium
Application Method	Incorporated within 5 days of application	2	Medium
	Part B Total	10	
	P Index (Part A x Part B)	80	Low

Field: T-1 F-15 Crop Year: 2013

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 8.0, Cover: No-till w/ light to medium residues, Slope len.: 75 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 675 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	84 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	May	2	Medium
Application Method	Incorporated within 5 days of application	2	Medium
	Part B Total	10	
	P Index (Part A x Part B)	80	Low

Field: T-1 F-15 Crop Year: 2014

Site Information	Information Used to Determine P Loss Rati	ng		e for P Index Calculation
Part A: Phosphorus loss poter	ntial due to site and transport characteristics			
Hydrologic Soil Group	Hydrologic group: B		2	Medium
Erosion Potential	Slope: 8.0, Cover: No-till w/ light to medium res Slope len.: 75 m	idues,	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft		1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 675 ft		1	Low
	Part	A Total	8	
Part B: Phosphorus loss poten	ntial due to source and management characte	ristics		
Soil Test P	84 ppm		4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	IDI	= 2	_ Medium_
Application Timing	May	IIUji	2	Medium
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Site Information	Information Used to Determine P Loss Rating		e for P Index
Application Method	Incorporated within 5 days of application	2	Medium
	Part B Total	10	
	P Index (Part A x Part B)	80	Low

Field: T-1 F-15 Cron Year: 2015

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pote	ntial due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 8.0, Cover: No-till w/ light to medium residues, Slope len.: 75 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 675 ft	1	Low
***	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	84 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	May	2	Medium
Application Method	Incorporated within 5 days of application	2	Medium
	Part B Total	10	
	P Index (Part A x Part B)	80	Low

Field: T-1 F-15 Crop Year: 2016

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 8.0, Cover: No-till w/ light to medium residues, Slope len.: 75 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 675 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	84 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	May	2	Medium
Application Method	Surface applied (no incorporation)	(8)	Very High
	Part B Total	16	
	P Index (Part A x Part B)	128	Medjum

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Field: T-1 F-16 Crop Year: 2012

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 875 ft	1	Low
=======================================	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	47 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	Apr	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	16	
	P Index (Part A x Part B)	128	Medium

Field: T-1 F-16 Crop Year: 2013

Site Information	Information Used to Determine P Loss Rating		e for P Index
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 875 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	47 ppm	4	High
P Application Rate	None applied., Manure: 60 lbs P ₂ O ₅ /ac	6	Very high
Application Timing	Sep	1	Low
Application Method	Injected	1	Low
	Part B Total	12	
	P Index (Part A x Part B)	96	Low

Field: T-1 F-16

Crop Year: 2014		Į,	5	TE		ue for l		X
Site Information	Information Used to Determine P Loss Ra	मा	10		Un E	Salcula	nion	
Part A: Phosphorus loss potei	ntial due to site and transport characteristic	5						
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Site Information	Site Information			
Hydrologic Soil Group	Hydrologic group: B	2	Medium	
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium	
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low	
Non-Application Width from Surface Water Conveyance	Distance to water: 875 ft	1	Low	
•	Part A Total	8		
Part B: Phosphorus loss pote	ential due to source and management characteristics			
Soil Test P	47 ppm	4	High	
P Application Rate	None applied., Manure: 81 lbs P ₂ O ₅ /ac	8	Very high	
Application Timing	Sep	1	Low	
Application Method	Injected	1	Low	
	Part B Total	14		
	P Index (Part A x Part B)	112	Medium	

Field: T-1 F-16 Crop Year: 2015

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Part A: Phosphorus loss potential due to site and transport characteristics			
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 875 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	47 ppm	4	High
P Application Rate	None applied., Manure: 81 lbs P ₂ O ₅ /ac	8	Very high
Application Timing	Sep	1	Low
Application Method	Injected	1	Low
	Part B Total	14	
	P Index (Part A x Part B)	112	Medium

Field: T-1 F-16 Crop Year: 2016

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation
Part A: Phosphorus loss pote	ntial due to site and transport characteristics	
Hydrologic Soil Group	Hydrologic group: B	2 Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4 Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft JAN	1 7 2012 Low

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Site Information	Information Used to Determine P Loss Rating		e for P Index Calculation
Non-Application Width from Surface Water Conveyance	Distance to water: 875 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss potential due to source and management characteristics			
Soil Test P	47 ppm	4	High
P Application Rate	None applied., Manure: 81 lbs P ₂ O ₅ /ac	8	Very high
Application Timing	Sep	1	Low
Application Method	Injected	1	Low
	Part B Total	14	
	P Index (Part A x Part B)	112	Medium

Field: T-1 F-27 Crop Year: 2012

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation	
Part A: Phosphorus loss potential due to site and transport characteristics				
Hydrologic Soil Group	Hydrologic group: B	2	Medium	
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium	
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low	
Non-Application Width from Surface Water Conveyance	Distance to water: 1425 ft	1	Low	
	Part A Total	8		
Part B: Phosphorus loss pote	ential due to source and management characteristics			
Soil Test P	88 ppm	4	High	
P Application Rate	None applied.	0	Low	
Application Timing	None applied.	0	Low	
Application Method	None applied.	0	Low	
	Part B Total	4		
	P Index (Part A x Part B)	32	Low	

Field: T-1 F-27 Crop Year: 2013

Site Information	Site Information		Value for P Index Calculation	
Part A: Phosphorus loss pot	ential due to site and transport characteristics			
Hydrologic Soil Group	Hydrologic group: B	2	Medium	
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium	
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low	
Non-Application Width from Surface Water Conveyance	Distance to water: 1425 ft	(書(Low	
	Part A Total	8	= U V	

Part B: Phosphorus loss potential due to source and management characteristics

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Site Information	Site Information		Value for P Index Calculation		
Soil Test P	88 ppm	4	High		
P Application Rate	None applied., Manure: 60 lbs P ₂ O ₅ /ac	6	Very high		
Application Timing	Sep	1	Low		
Application Method	Injected	1	Low		
	Part B Total	12			
	P Index (Part A x Part B)	96	Low		

Field: T-1 F-27 Crop Year: 2014

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Part A: Phosphorus loss pot	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 1425 ft	1	Low
•	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	88 ppm	4	High
P Application Rate	None applied., Manure: 60 lbs P ₂ O ₅ /ac	6	Very high
Application Timing	Sep	1	Low
Application Method	Injected	1	Low
	Part B Total	12	
	P Index (Part A x Part B)	96	Low

Field: T-1 F-27 Crop Year: 2015

Site Information	Information Used to Determine P Loss Rating		lue for P Index Calculation	
Part A: Phosphorus loss potential due to site and transport characteristics				
Hydrologic Soil Group	Hydrologic group: B	2	Medium	
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium	
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low	
Non-Application Width from Surface Water Conveyance	Distance to water: 1425 ft	1	Low	
	Part A Total	8		

Part B: Phosphorus loss potential due to source and management characteristics

Soil Test P P Application Rate

Application Timing

88 ppm

None applied., Manure: 24 lbs P2O5/ad

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Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	16	
	P Index (Part A x Part B)	128	Medium

Field: T-1 F-27 Crop Year: 2016

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 1425 ft	1	Low
	Part A Total	8	16
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	88 ppm	4	High
P Application Rate	None applied., Manure: 60 lbs P ₂ O ₅ /ac	6	Very high
Application Timing	Sep	1	Low
Application Method	Injected	1	Low
	Part B Total	12	
	P Index (Part A x Part B)	96	Low

Field: T-1 F-28 Crop Year: 2012

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Part A: Phosphorus loss pot	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 1050 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pot	ential due to source and management characteristics		
Soil Test P	20 ppm	2	Medium
P Application Rate	None applied., Manure: 24 lbs P₂O₅/ac	2	Medium
Application Timing	Apr	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
WIND COMMENT	Part B Total		EIVE
	P Index (Part A x Part B)	112	Medium

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Field: T-1 F-28 Crop Year: 2013

Site Information	Information Used to Determine P Loss Rating	Value for P Inde Calculation	
Part A: Phosphorus loss pot	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 1050 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pot	ential due to source and management characteristics		
Soil Test P	20 ppm	2	Medium
P Application Rate	None applied., Manure: 60 lbs P ₂ O ₅ /ac	6	Very high
Application Timing	Sep	1	Low
Application Method	Injected	1	Low
	Part B Total	10	
	P Index (Part A x Part B)	80	Low

Field: T-1 F-28 Crop Year: 2014

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pot	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 1050 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	20 ppm	2	Medium
P Application Rate	None applied., Manure: 81 lbs P ₂ O ₅ /ac	8	Very high
Application Timing	Sep	1	Low
Application Method	Injected	1	Low
	Part B Total	12	
	P Index (Part A x Part B)	96	Low

Field: T-1 F-28 Crop Year: 2015

Value for PVndex Site Information Information Used to Determine P Loss Rating Calculation Part A: Phosphorus loss potential due to site and transport characteristics MMP 0.3.1.0 / Report Version 2009.02.20 1/8/2012 1:26:44 PM Page 24 of 39

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Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 1050 ft	1	Low
· ·	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	20 ppm	2	Medium
P Application Rate	None applied., Manure: 81 lbs P ₂ O ₅ /ac	8	Very high
Application Timing	Sep	1	Low
Application Method	Injected	1	Low
	Part B Total	12	
	P Index (Part A x Part B)	96	Low

Field: T-1 F-28 Crop Year: 2016

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pot	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 1050 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pot	ential due to source and management characteristics		
Soil Test P	20 ppm	2	Medium
P Application Rate	None applied., Manure: 81 lbs P ₂ O ₅ /ac	8	Very high
Application Timing	Sep	1	Low
Application Method	Injected	1	Low
	Part B Total	12	
	P Index (Part A x Part B)	96	Low

Field: T-1 F-33 Crop Year: 2012

Site Information	Information Used to Determine P Loss Rating			ue for P Index Calculation
Part A: Phosphorus loss pote	ntial due to site and transport characteristics			
Hydrologic Soil Group Erosion Potential Permanent Vegetative Buffer	Hydrologic group: B Slope: 10.0, Cover: No-till w/ light to medium re Slope len.: 100 m Vegetative buffer width: 40 ft		JÁN	Medium 1 7 2b0
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Site Information	Information Used to Determine P Loss Rating Distance to water: 1100 ft		Value for P Index Calculation	
Non-Application Width from Surface Water Conveyance			Low	
	Part A Total	8		
Part B: Phosphorus loss pote	ntial due to source and management characteristics			
Soil Test P	96 ppm	4	High	
P Application Rate	None applied.	0	Low	
Application Timing	None applied.	0	Low	
Application Method	None applied.	0	Low	
	Part B Total	4		
	P Index (Part A x Part B)	32	Low	

Field: T-1 F-33 Crop Year: 2013

Site Information	Information Used to Determine P Loss Rating	Value for P Inde Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 1100 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	96 ppm	4	High
P Application Rate	None applied., Manure: 60 lbs P ₂ O ₅ /ac	6	Very high
Application Timing	Sep	1	Low
Application Method	Injected	1	Low
	Part B Total	12	
	P Index (Part A x Part B)	96	Low

Field: T-1 F-33 Crop Year: 2014

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	11	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 1100 ft	EC	
III IVI	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics	UAN	7 2012

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Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Soil Test P	96 ppm	4	High
P Application Rate	None applied., Manure: 60 lbs P ₂ O ₅ /ac	6	Very high
Application Timing	Sep	1	Low
Application Method	Injected	1	Low
	Part B Total	12	
	P Index (Part A x Part B)	96	Low

Field: T-1 F-33 Crop Year: 2015

Site Information	Information Used to Determine P Loss Rating		e for P Index
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 1100 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	96 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	Oct	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	16	
	P Index (Part A x Part B)	128	Medium

Field: T-1 F-33 Crop Year: 2016

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation			
Part A: Phosphorus loss pote	Part A: Phosphorus loss potential due to site and transport characteristics				
Hydrologic Soil Group	Hydrologic group: B	2	Medium		
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium		
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low		
Non-Application Width from Surface Water Conveyance	Distance to water: 1100 ft	1	Low		
*	Part A Total	8			

Part B: Phosphorus loss potential due to source and management characteristics

Soil Test P
P Application Rate
Application Timing

96 ppm

None applied., Manure: 24 lbs P₂O₅/ac

May

2 Medium
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Tennessee Phosphorus ınaex

Operation:

Willway Dairy

County:

Monroe Plan Saved: 1/8/2012

Plan File: Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016

WillwayDairytest1.mmp

State: Tennessee Init. File Rev:

11/8/2011 Crop Years:

2012-2016

Soils File Rev:

8/29/2011

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	16	
	P Index (Part A x Part B)	128	Medium

Field: T-7059 F-2 Crop Year: 2012

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 1350 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	81 ppm	4	High
P Application Rate	None applied., Manure: 16 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	Feb, w/o cover	8	Very high
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	22	
	P Index (Part A x Part B)	176	Medium

Field: T-7059 F-2 Crop Year: 2013

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Part A: Phosphorus loss pot	ential due to site and transport characteristics		N H
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 1350 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pot	ential due to source and management characteristics		
Soil Test P	81 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	Sep	270	re ntow
Application Method	Surface applied (no incorporation)	58	Very high
	Part B Total	15	
UA.	P Index (Part A x Part B)	120	Medium
411			

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Operation: Plan File:

Willway Dairy

WillwayDairytest1.mmp

County: State:

Monroe Tennessee Plan Saved: Init. File Rev:

1/8/2012 11/8/2011

Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016 2012-2016

Soils File Rev:

8/29/2011

Crop Years:

Field: T-7059 F-2 Crop Year: 2014

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 1350 ft	1	Low
-	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	81 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	Oct	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	16	
	P Index (Part A x Part B)	128	Medium

Field: T-7059 F-2 Crop Year: 2015

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pot	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 1350 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	81 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	Apr	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	16	
	P Index (Part A x Part B)	128	Medium

Field: T-7059 F-2 Crop Year: 2016

Value for P Index Site Information Information Used to Determine P Loss Rating Calculation Part A: Phosphorus loss potential due to site and transport characteristics 1/8/2012 1:26:44 PM MMP 0.3.1.0 / Report Version 2009.02.20 Page 29 of 39

Tennessee Phosphorus inaex

County: Plan Saved: Operation: Willway Dairy Monroe 1/8/2012 Plan File: WillwayDairytest1.mmp State: Tennessee Init. File Rev: 11/8/2011 Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016 Crop Years: 2012-2016 Soils File Rev: 8/29/2011

Value for P Index Calculation Site Information Information Used to Determine P Loss Rating 2 Hydrologic Soil Group Hydrologic group: B Medium Slope: 10.0, Cover: No-till w/ light to medium residues, Medium **Erosion Potential** 4 Slope len.: 100 m Permanent Vegetative Buffer Vegetative buffer width: 40 ft 1 Low Non-Application Width from Distance to water: 1350 ft 1 Low Surface Water Conveyance

	Part A Total	8	
Part B: Phosphorus loss po	tential due to source and management characteristics		
Soil Test P	81 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P₂O₅/ac	2	Medium
Application Timing	Mar, w/o cover	4	High
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	18	
	P Index (Part A x Part B)	144	Medium

Field: T-7059 F-3 Crop Year: 2012

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 400 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	75 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	Feb, w/o cover	8	Very high
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	22	
	P Index (Part A x Part B)	176	Medium

Field: T-7059 F-3 Crop Year: 2013

Site Information	Information Used to Determine P Loss R	ating	Value for P Index Calculation
Part A: Phosphorus loss poten	tial due to site and transport characteristic	cs	
Hydrologic Soil Group	Hydrologic group: B		2 Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium r Slope len.: 100 m	esidues,	4 Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft		JAN 17 20Low
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Tennessee Phosphorus Inaex

Operation: Plan File: Willway Dairy

County:

Monroe

Plan Saved:

1/8/2012 11/8/2011

Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016

WillwayDairytest1.mmp

State:

Tennessee

Init. File Rev:

Crop Years:

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2012-2016

Soils File Rev:

8/29/2011

Site Information	Information Used to Determine P Loss Rating	Value for P Inde Calculation	
Non-Application Width from Surface Water Conveyance	Distance to water: 400 ft		
	Part A Total	8	
Part B: Phosphorus loss pote	ntial due to source and management characteristics		
Soil Test P	75 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	Sep	1	Low
Application Method	Surface applied (no incorporation)	8	Very high
=	Part B Total	15	
	P Index (Part A x Part B)	120	Medium

Field: T-7059 F-3 Crop Year: 2014

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 400 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	75 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	Oct	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	16	
	P Index (Part A x Part B)	128	Medium

Field: T-7059 F-3 Crop Year: 2015

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation				
Part A: Phosphorus loss pote	ential due to site and transport characteristics					
Hydrologic Soil Group	Hydrologic group: B		2		Medium	
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m		4		Medium	
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft		1		Low	
Non-Application Width from Surface Water Conveyance	Distance to water: 400 ft		M			1
	Part A Total		Ą			
Part R: Phosphorus loss note	ential due to source and management characteristics	Ħ	M	T	AAN 1 7 201	1

Tennessee Phosphorus ınaex

Operation:Willway DairyCounty:MonroePlan Saved:1/8/2012Plan File:WillwayDairytest1.mmpState:TennesseeInit. File Rev:11/8/2011Plan Folder:S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016Crop Years:

2012-2016 **Soils File Rev**: 8/29/2011

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation		
Soil Test P	75 ppm	4	High	
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium	
Application Timing	Apr	2	Medium	
Application Method	Surface applied (no incorporation)	8	Very high	
	Part B Total	16		
	P Index (Part A x Part B)	128	Medium	

Field: T-7059 F-3 Crop Year: 2016

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 400 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	75 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	Apr	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	16	
	P Index (Part A x Part B)	128	Medium

Field: T-7059 F-6 Crop Year: 2012

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 300 ft	1	Low
	Part A Total	8	

Part B: Phosphorus loss potential due to source and management characteristics

Soil Test P 74 ppm P Application Rate None applied., Manure: 16 lbs P_2O_5 /ac Application Timing Feb, w/o cover

High Medium 8 Very high JAN 1 7 2012 1/8/2012 1:26:44 PM

Tennessee Phosphorus Inaex

Operation: Plan File: Willway Dairy

County:

Monroe

Plan Saved:

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Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016

WillwayDairytest1.mmp

State:

Tennessee

Init. File Rev:

Crop Years:

2012-2016

Soils File Rev:

8/29/2011

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	22	
	P Index (Part A x Part B)	176	Medium

Field: T-7059 F-6 Crop Year: 2013

Site Information	Information Used to Determine P Loss Rating	Value for P Inde Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 300 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	74 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	Sep	1	Low
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	15	
	P Index (Part A x Part B)	120	Medium

Field: T-7059 F-6 Crop Year: 2014

Information Used to Determine P Loss Rating	Value for P Index Calculation	
ential due to site and transport characteristics		
Hydrologic group: B	2	Medium
Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Vegetative buffer width: 40 ft	1	Low
Distance to water: 300 ft	1	Low
Part A Total	8	
ential due to source and management characteristics		
74 ppm	4	High
None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Oct	2	Medium
Surface applied (no incorporation)	3 C	Very high =
Part B Total	16	
P Index (Part A x Part B)	128	Medjum
	Hydrologic group: B Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m Vegetative buffer width: 40 ft Distance to water: 300 ft Part A Total Tential due to source and management characteristics 74 ppm None applied., Manure: 24 lbs P ₂ O ₅ /ac Oct Surface applied (no incorporation) Part B Total	Information Used to Determine P Loss Rating Rential due to site and transport characteristics Hydrologic group: B Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m Vegetative buffer width: 40 ft Distance to water: 300 ft Part A Total Rential due to source and management characteristics 74 ppm None applied., Manure: 24 lbs P ₂ O ₅ /ac Oct Surface applied (no incorporation) Part B Total 16

Tennessee Phosphorus ınaex

Operation: Plan File: Willway Dairy

County:

Monroe

Plan Saved:

1/8/2012

Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016

WillwayDairytest1.mmp

State:

Tennessee

Init. File Rev:

11/8/2011 **Crop Years:**

2012-2016

Soils File Rev:

8/29/2011

Field: T-7059 F-6 Crop Year: 2015

Site Information	Information Used to Determine P Loss Rating	Value for P Inde Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		0
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 300 ft	1	Low
	Part A Total	8	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	74 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	Apr	2	Medium
Application Method	Surface applied (no incorporation)	8	Very high
	Part B Total	16	
	P Index (Part A x Part B)	128	Medium

Field: T-7059 F-6 Crop Year: 2016

Site Information	Information Used to Determine P Loss Rating		e for P Index alculation		
Part A: Phosphorus loss potential due to site and transport characteristics					
Hydrologic Soil Group	Hydrologic group: B	2	Medium		
Erosion Potential	Slope: 5.0, Cover: No-till w/ light to medium residues, Slope len.: 100 m	4	Medium		
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low		
Non-Application Width from Surface Water Conveyance	Distance to water: 300 ft	1	Low		
	Part A Total	8			
Part B: Phosphorus loss pote	ential due to source and management characteristics				
Soil Test P	74 ppm	4	High		
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium		
Application Timing	Mar, w/o cover	4	High		
Application Method	Surface applied (no incorporation)	8	Very high		
	Part B Total	18			
	P Index (Part A x Part B)	144	Medium		

Field: T-7179 F-1 Crop Year: 2012

Site Information Information Used to Determine P Loss Rating Calculation

Part A: Phosphorus loss potential due to site and transport characteristics

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County: Monroe Plan Saved: Operation: Willway Dairy 1/8/2012 Plan File: WillwayDairytest1.mmp State: 11/8/2011 Tennessee Init. File Rev: Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016 Crop Years:

Soils File Rev: 8/29/2011 2012-2016

Site Information	Information Used to Determine P Loss Rating		e for P Index Calculation
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 3.0, Cover: No-till w/ light to medium residues, Soil texture: SIL, East TN, Slope len.: 100 m	2	Low
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 275 ft	1	Low
	Part A Total	6	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	71 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	May	2	Medium
Application Method	Incorporated within 5 days of application	2	Medium
	Part B Total	10	
	P Index (Part A x Part B)	60	Low

Field: T-7179 F-1 Crop Year: 2013

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 3.0, Cover: No-till w/ light to medium residues, Soil texture: SIL, East TN, Slope len.: 100 m	2	Low
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 275 ft	1	Low
·	Part A Total	6	
Part B: Phosphorus loss pote	ential due to source and management characteristics		
Soil Test P	71 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	May	2	Medium
Application Method	Incorporated within 5 days of application	2	Medium
	Part B Total	10	
	P Index (Part A x Part B)	60	Low

Field: T-7179 F-1 Crop Year: 2014

Site Information	Information Used to Determine P Loss Rating		Value for P Index Calculation
Part A: Phosphorus loss poten	tial due to site and transport characteristics		
Hydrologic Soil Group Erosion Potential	Hydrologic group: B Slope: 3.0, Cover: No-till w/ light to medium residue Soil texture: SIL, East TN, Slope len.: 100 m	es,	2 CELVE
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft		1 JAN 1 7 2012
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Tennessee Phosphorus ınaex

Operation:

Willway Dairy

County:

Monroe

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1/8/2012

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WillwayDairytest1.mmp

State:

Tennessee

Init. File Rev:

11/8/2011 Crop Years:

2012-2016

Soils File Rev:

8/29/2011

Site Information	Information Used to Determine P Loss Rating		ue for P Index Calculation
Non-Application Width from Surface Water Conveyance	Distance to water: 275 ft	1	Low
Part A Total			
Part B: Phosphorus loss pote	ntial due to source and management characteristics		
Soil Test P	71 ppm	4	High
P Application Rate	None applied., Manure: 24 lbs P ₂ O ₅ /ac	2	Medium
Application Timing	May	2	Medium
Application Method	cation Method Incorporated within 5 days of application		Medium
Part B Total P Index (Part A x Part B)			
			Low

Field: T-7179 F-1 Crop Year: 2015

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation		
Part A: Phosphorus loss pote	ential due to site and transport characteristics			
Hydrologic Soil Group	Hydrologic group: B	2 Mediun		
Erosion Potential	Slope: 3.0, Cover: No-till w/ light to medium residues, Soil texture: SIL, East TN, Slope len.: 100 m	2	Low	
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low	
Non-Application Width from Surface Water Conveyance	Distance to water: 275 ft	1	Low	
	6			
Part B: Phosphorus loss pote	ential due to source and management characteristics			
Soil Test P	71 ppm	4	High	
P Application Rate	None applied., Manure: 105 lbs P ₂ O ₅ /ac	11	Very high	
Application Timing	May	2	Medium	
Application Method	Incorporated within 5 days of application	2	Medium	
	Part B Total			
	P Index (Part A x Part B)	114	Medium	

Field: T-7179 F-1 Crop Year: 2016

Site Information	Information Used to Determine P Loss R		e for P Index alculation	
Part A: Phosphorus loss pote	ential due to site and transport characteristi	cs		
Hydrologic Soil Group	Hydrologic group: B		2	Medium
Erosion Potential	Slope: 3.0, Cover: No-till w/ light to medium Soil texture: SIL, East TN, Slope len.: 10	2	Low	
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft		1 1	Low
Non-Application Width from Surface Water Conveyance	n Width from			
	P	art A Total	6	
Part B: Phosphorus loss pote	ential due to source and management chara	cteristics	1.6.4.1	2 2010

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Operation:Willway DairyCounty:MonroePlan Saved:1/8/2012Plan File:WillwayDairytest1.mmpState:TennesseeInit. File Rev:11/8/2011Plan Folder:S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016Crop Years:

2012-2016	Soils File Rev:	8/29/2011

Site Information	Information Used to Determine P Loss Rating		e for P Index Calculation
Soil Test P	71 ppm	4	High
P Application Rate	None applied., Manure: 84 lbs P₂O₅/ac	8	Very high
Application Timing	May	2	Medium
Application Method	Surface applied (no incorporation)		Very high
Part B Total		22	
	P Index (Part A x Part B)	132	Medium

Field: T-7179 F-2 Crop Year: 2012

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation			
Part A: Phosphorus loss poter	ntial due to site and transport characteristics				
Hydrologic Soil Group	pup Hydrologic group: B				
Erosion Potential	Slope: 10.0, Cover: Pasture/Hay	2	Low		
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low		
Non-Application Width from Surface Water Conveyance	Distance to water: 325 ft	1	Low		
	6				
Part B: Phosphorus loss poten	ntial due to source and management characteristics				
Soil Test P	71 ppm	4	High		
P Application Rate	None applied.	0	Low		
Application Timing	None applied.	0	Low		
Application Method	None applied.		Low		
Part B Total					
P Index (Part A x Part B)			Low		

Field: T-7179 F-2 Crop Year: 2013

Site Information	Information Used to Determine P Loss Rating		ue for P Index Calculation
Part A: Phosphorus loss potent	tial due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: Pasture/Hay	2	Low
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 325 ft	1	Low
	/ 6		
Part B: Phosphorus loss potent	ial due to source and management characteristics		
Soil Test P	71 ppm	4	High
P Application Rate	None applied.	05 (- PANN
Application Timing	None applied.	0	- Fow
Application Method	ation Method None applied.		

Tennessee Phosphorus Index
County: Monroe Pla Operation: Willway Dairy Plan Saved: 1/8/2012 Plan File: WillwayDairytest1.mmp State: Init. File Rev: 11/8/2011 Tennessee Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016 Crop Years:

2012-2016 Soils File Rev: 8/29/2011

Site Information	Information Used to Determine P Loss Rating		e for P Index Calculation
	Part B Total	4	
	P Index (Part A x Part B)	24	Low

Field: T-7179 F-2 Crop Year: 2014

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation	
Part A: Phosphorus loss poten	ntial due to site and transport characteristics		
Hydrologic Soil Group	Hydrologic group: B	2	Medium
Erosion Potential	Slope: 10.0, Cover: Pasture/Hay	2	Low
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low
Non-Application Width from Surface Water Conveyance	Distance to water: 325 ft	1	Low
	6		
Part B: Phosphorus loss poten	tial due to source and management characteristics		
Soil Test P	71 ppm	4	High
P Application Rate	None applied., Manure: 105 lbs P₂O₅/ac	10	Very high
Application Timing	Oct	2	Medium
Application Method	Surface applied (no incorporation)		Very high
•	Part B Total	24	
W)	P Index (Part A x Part B)	144	Medium

Field: T-7179 F-2 Crop Year: 2015

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation			
Part A: Phosphorus loss potential due to site and transport characteristics					
Hydrologic Soil Group	Hydrologic group: B 2				
Erosion Potential	Slope: 10.0, Cover: Pasture/Hay	2	Low		
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low		
Non-Application Width from Surface Water Conveyance	Distance to water: 325 ft	1	Low		
	6				
Part B: Phosphorus loss potenti	ial due to source and management characteristics				
Soil Test P	71 ppm	4	High		
P Application Rate	None applied., Manure: 105 lbs P ₂ O ₅ /ac	10	Very high		
Application Timing	Oct	2	Medium		
Application Method	Surface applied (no incorporation)		Very high		
	Part B Total	24			
	P Index (Part A x Part B)	_144	Medium		

Field: T-7179 F-2 Crop Year: 2016

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Tennessee Phosphorus Inaex County: Monroe Pla

Operation:

Willway Dairy

Plan Saved:

1/8/2012

Plan File:

WillwayDairytest1.mmp

State:

Tennessee

Init. File Rev:

11/8/2011

Crop Years:

Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016

2012-2016

Soils File Rev:

8/29/2011

Site Information	Information Used to Determine P Loss Rating	Value for P Index Calculation		
Part A: Phosphorus loss poten	tial due to site and transport characteristics			
Hydrologic Soil Group	Hydrologic group: B			
Erosion Potential	Slope: 10.0, Cover: Pasture/Hay	2	Low	
Permanent Vegetative Buffer	Vegetative buffer width: 40 ft	1	Low	
Non-Application Width from Surface Water Conveyance	Distance to water: 325 ft	1	Low	
3	Part A Total			
Part B: Phosphorus loss poten	tial due to source and management characteristics			
Soil Test P	P 71 ppm		High	
P Application Rate	None applied., Manure: 105 lbs P ₂ O ₅ /ac		Very high	
Application Timing	Oct	2	Medium	
Application Method	Surface applied (no incorporation)		Very high	
	Part B Total	24		
	P Index (Part A x Part B)	144	Medium	

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reinessee Phosphorus Index County: Monroe

Operation:Willway DairyCounty:MonroePlan Saved:1/8/2012Plan File:WillwayDairytest1.mmpState:TennesseeInit. File Rev:11/8/2011

Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016 8/29/2011

Soils File Rev:

Field	Crop Year	Site and Transport Factor	Mgmt. and Source Factor	P Index w/o P Apps	P Index w/ P Apps	P Loss Risk
T-1 F-5 /	2012	6	4	24	24	Low
T-1 F-5	2013	6	21	24	126	Medium
T-1 F-5	2014	6	21	24	126	Medium
T-1 F-5	2015	6	21	24	126	Medium
T-1 F-5	2016	6	21	24	126	Medium
T-1 F-6	2012	6	4	24	24	Low
T-1 F-6	2013	6	29	24	174	Medium
T-1 F-6	2014	6	21	24	126	Medium
T-1 F-6	2015	6	21	24	126	Medium
T-1 F-6	2016	6	21	24	126	Medium
T-1 F-7 √	2012	8	8	64	64	Low
T-1 F-7	2013	8	16	64	128	Medium
T-1 F-7	2014	8	20	64	160	Medium
T-1 F-7	2015	8	16	64	128	Medium
T-1 F-7	2016	8	16	64	128	Medium
T-1 F-8	2012	8	8	64	64	Low
T-1 F-8	2013	8	16	64	128	Medium
T-1 F-8	2014	8	20	64	160	Medium
T-1 F-8	2015	8	16	64	128	Medium
T-1 F-8	2016	8	16	64	128	Medium
T-1 F-10 V	2012	6	13	6	78	Low
T-1 F-10	2013	6	16	6	96	Low
T-1 F-10	2014	6	16	6	96	Low
T-1 F-10	2015	6	16	6	96	Low
T-1 F-10	2016	6	16	6	96	Low
T-1 F-13	2012	8	16	32	128	Medium
T-1 F-13	2013	8	12	32	96	Low
T-1 F-13	2014	8	25	32	200	Medium
T-1 F-13	2015	8	4	32	32	Low
T-1 F-13	2016	8	14	32	112	Medium
T-1 F-14 J	2012	8	10	32	80	Low
T-1 F-14	2013	8	10	32	80	Low
T-1 F-14	2014	8	10	32	80	Low
T-1 F-14	2015	8	18	32	144	Medium
T-1 F-14	2016	8	22	32	176	Medium
T-1 F-15	2012	8	10	32	E (80 E	N/ TOW
T-1 F-15	2013	8	10	32		Low

Tennessee Phosphorus Index County: Monroe P

Operation: Willway Dairy Plan Saved: 1/8/2012 Plan File: WillwayDairytest1.mmp State: Tennessee Init. File Rev: 11/8/2011 Soils File Rev:

Plan Folder: S:\TENNESSEE-projects\Will Malloney\Willway Dairy CNMP_2012-2016

8/29/2011

Field	Crop Year	Site and Transport Factor	Mgmt. and Source Factor	P Index w/o P Apps	P Index w/ P Apps	P Loss Risk
T-1 F-15	2014	8	10	32	80	Low
T-1 F-15	2015	8	10	32	80	Low
T-1 F-15	2016	8	16	32	128	Medium
T-1 F-16	2012	8	16	32	128	Medium
T-1 F-16	2013	8	12	32	96	Low
T-1 F-16	2014	8	14	32	112	Medium
T-1 F-16	2015	8	14	32	112	Medium
T-1 F-16	2016	8	14	32	112	Medium
T-1 F-27	2012	8	4	32	32	Low
T-1 F-27	2013	8	12	32	96	Low
T-1 F-27	2014	8	12	32	96	Low
T-1 F-27	2015	8	16	32	128	Medium
T-1 F-27	2016	8	12	32	96	Low
T-1 F-28	2012	8	14	16	112	Medium
T-1 F-28	2013	8	10	16	80	Low
T-1 F-28	2014	8	12	16	96	Low
T-1 F-28	2015	8	12	16	96	Low
T-1 F-28	2016	8	12	16	96	Low
T-1 F-33 🗸	2012	8	4	32	32	Low
T-1 F-33	2013	8	12	32	96	Low
T-1 F-33	2014	8	12	32	96	Low
T-1 F-33	2015	8	16	32	128	Medium
T-1 F-33	2016	8	16	32	128	Medium
T-7059 F-2	2012	8	22	32	176	Medium
T-7059 F-2	2013	8	15	32	120	Medium
T-7059 F-2	2014	8	16	32	128	Medium
T-7059 F-2	2015	8	16	32	128	Medium
T-7059 F-2	2016	8	18	32	144	Medium
T-7059 F-3	2012	8	22	32	176	Medium
T-7059 F-3	2013	8	15	32	120	Medium
T-7059 F-3	2014	8	16	32	128	Medium
T-7059 F - 3	2015	8	16	32	128	Medium
T-7059 F-3	2016	8	16	32	128	Medium
T-7059 F-6 √	2012	8	22	32	176	Medium
T-7059 F-6	2013	8	15	32	120	Medium
T-7059 F-6	2014	8	16	32	128 [Medium
T-7059 F-6	2015	8	16	32	128	Medium